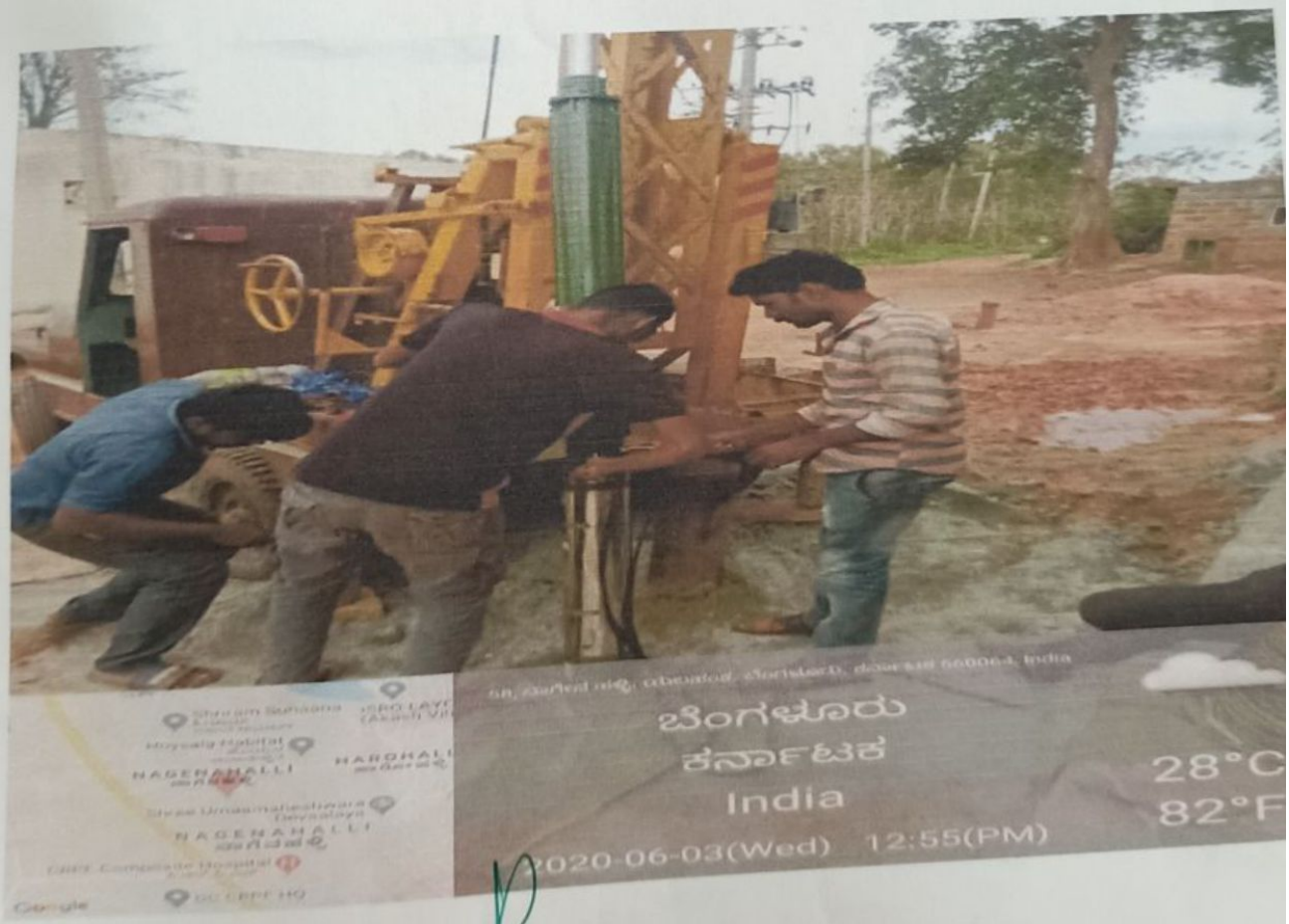
# "Providing water supply and drilling of borewells in ward no. 01 & 02 of Yelahanka"




AE-02

Asst.Exective Enginer
BBMP
Yelahanka Sub Division

Providing water supply and drilling of borewells in ward no 01&02 of Yelahanka

AE - OL

Asst.Exective Enginer
BBMP
Yelahanka Sub Division

# TEST REPORT OF AGGEGRATE IMPACT VALUE
## IS: 2386 Part IV

| | | | |
|---|---|---|---|
| **Lab ID** | : | **CP-RW-2020-06-15-37** | **Date: 13-05-20** |
| **Customer** | : | Assistant Executive Engineer, Yelahanka Sub Division, BBMP, Bangalore. | |
| **Address** | : | Yelahanka Sub Division, BBMP, Bangalore. | |
| **Project Name** | : | Providing water supply and drilling of borewells in ward no-01 & 02 of Yelahanka Sub Division. | |
| **Agency** | : | Sri.K.Lakshmi Narayana Reddy, No:01, 15th Cross, Kanakanagara, R.T.Nagara (Post), Banglore-560032. | |
| **Customer Reference** | : | EE/YNK.D/EPMT-16/W.O/263/2019-20 | |
| **Source of Sample** | : | Sample supplied by Agency | |
| **Sample Condition** | : | Satisfactory | |
| **Date of Receipt** | : | 11-05-20 | |
| **Type of Mix** | : | Coarse Aggregate for WMM ( Wet Mix Macadam) | |
| **Date of test** | : | 11-05-20 | |

| Sl.No | Particulars of observations | Index | TEST 1 | TEST 2 |
|---|---|---|---|---|
| 1 | Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve) | A | 300.2 | 300.2 |
| 2 | Weight of fraction passing 2.36mm sieve After giving 15 blows | B | 73.9 | 74.0 |
| 3 | weight of fraction retained 2.36mm sieve After giving 15 blows | C | 225.9 | 225.8 |
| 4 | Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made. | A-(B+C) | 0.4 | 0.4 |
| 5 | Aggregate impact value | (B/A)*100 | 24.6 | 24.7 |
| 6 | Aggregate impact value ( Mean of two tests) | Pecentage | 24.6 | |

**Note:-**

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

Executive Engineer
BBMP
Yelahanka Sub Division

AE-02

CIVIL Pro Sig Date ORE

FOR CIVIL Pro
R RUDRAPRASAD
Authorized Signator
Technical Manage



M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL| GEO TECHNICAL| PROJECT MANAGEMENT| SURVEYING SERVICES |

I.A. Gowda : 94483 ...
...mail.com

# Am An GEO CONSULTANT

**NAGARAJ MOKASHI,** MSc.,
GEOLOGIST

Mobile : 94483 13401
e-mail : ngmokashi@rediffmail.com
am.an4geoconsultant@gmail.com

Ramjyothi Nagar, R.V.College Post, Bangalore - 560 059.

To,
Assistant Executive Engineer
Yelahanka Sub division
Bruhat Bangalore mahanagara palike

Date : 23/03/2020

## GEO-TECHNICAL SURVEY REPORT
(Ground Water Exploration)

Sir / Madam,

As per your work order/request Geo-Hydrological / Geo-physical Survey carried out in your land / site belonging Bangalore ..... city/village Near Ashrama Sainik Vihar layout Dated on 23/03/2020 in order to assess the ground water potential of the area for drinking / irrigation / industrial purposes.

The area inspected has a slope towards ..... marked by ..... Red ..... Soil, uneven topography hydrogeological features are found to be favourable / not favourable for ground water extraction. Geology of the area is marked by ..... Soft ..... rock.

**SOURCES EXTRACTED :**

(I) Betwen ..... 650' ..... ft/mtrs. (II) ..... 870' ..... ft/mtrs.

(III) ..... 1020' ..... ft/mtrs.

From the study of the above field observation, Investigation results, a borewell VES drilling ..... to app depth of ..... 1100' ..... ft/mtrs. Below the ground level, casing pipe required be to app depth of ..... 200' ..... ft/mtrs.

Approx. yield expected may be around ..... 2 1/2" ..... GPH.

Suggested to drill 4 1/2" / 6 1/2" dia Borewell.

Asst. Executive Engineer
BBMP
Yelahanka Sub Division

**********

NOTE : Although the best site for drilling has been suggested, no guarantee of success can be given and we will not be liable in any way for any loss to the party in respect of the well drilled at the site recommended being a failure in any form.

Save Water

(NAGARAJ MOKASHI)

SAVE ENVIRONMENT ADOPT RAINWATER HARVESTING

**Services :** Ground Water location by geo-hydrological, geophysical and divining methods, Driling advisors and supervision Rain Water harvesting, water shed management, Quarry operations, Planning, Water testing, Soil Testing & Surveying.

AE-02

Original/Duplicate/Triplicate

# CONTRACT CERTIFICATE

(For Other Works)

Vision: **BBMP / YNK** Sub-Division: **Yelahanka Sub – Division.**

Bill Received No. Dated Divisional Cash Book Voucher No..... Dated.....

Sub Divisional

Schedule Docket No. Head of Account: **Work Code: 001-20-000023**

Est.Cost: **50.00** Lakhs B.R.N

Name of Work : Providing water supply and drilling of borewells in ward no -01 yelahanka Sub division.

Name of Contractor and Full Address: **Sri K Lakshmi Narayana Reddy, No 01 15th cross kanaka Nagara (post) Bangalore – 560032**

Reference to Agreement No. EE/YNK.D/ E-PMT- 16 / W.O/ 00263 /2019-20 Date: 23-03-2019

Certified that the measurements were taken by me on 20/6/2020 and recorded of Pages 368953. To measurement Book No 3690... and that the work is satisfactorily executed.

K. Lakshmi Narayana Reddy
Contractor

20/06/2020
Officer-in-charge

Certified that the measurement were taken by me on 20/06/2020 and found correct. The work is executed.

Certified that the quantities of materials shown in column 3 of Account have been actually broug work and the contractor has not previously received any advance on this security. These materi imperishable nature and are all required for immediate use on the work in connection with items for fini been agreed upon. A normal agreement signed and executed by the contractor is recorded in the office.

Sub-Divis

II Memorandum of Payment

1) Total value of work done or supplies made as per account within
2) Deduct amount to be held in reserve being .....percent Rs.....
3) " Balance
4) Deduct Payment:
   a) Amount of previous payment as in the Office Cash Book Voucher No.....Dated.....S.D. No..... Amount adjusted towards cash advance recovery of
   b) Payments Now made } cost store or other material supplied. recovery of amount creditable to this/other work Amount paid on this bill Cheque / Cash.
5) Balance being unpaid value of work done held in reserve.
6) Deduct cash advance made on the Office cash Book Voucher No..... dated.....less adjustments.
7) Net amount due to or from Contractor unadjustments items.
8) Advance to Contractor for materials brought to site (as detailed) within.
9) Value of Government materials supplied.

Asst.Exec
B
Yelahanka

Total amount adjusted -

K. Lakshmi
Contrac

Received Rs..... (in words).....
.....
by cash and by adjustment of Payment as per memorandum
(in final settlement of all demands) (For use

Witness
1.
2.

K. Lakshmi

Stamp

Dated Signature of Contractor

Paid by me by Cheque No.....Dated.....
Cash Rs.....
Dated.....
Initials of Officer making payment

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 17 | Supplying of 1.1 KV LT UG cable having aluminium condutor PVC insulated shethed, EXTREDED INNER SHEATHRD galvnised steel,strip (2CX 10Sqm.mm wire armoured) confirming IS 3975,1990(no of strip indicated i GTP) AND extruded PVC outer sheathing armoured cable IS 1554 part 1,1998 and confirming to GTP of group A 4 Core 16Sqmm P No 40/ I No 6 4 4 ( 4 core 16 Sqmm) KPWD Electrical SR 2019-20 | Mtr | - | - | 240.00 | 157.35 | 37764.0 | 240.00 | 37764.0 |
| 18 | Labour charges for laying of 1.1 K.V class UG cable, in existing trench GI Pipe / stoneware pipe /on wall/on poles as required In existing trench/duct 6 Sqmm to 16 Sqmm)P No. 41 / I No. 6 5.1 KPWD Electrical SR 2019-20 | Mtr | - | - | 200.00 | 12.46 | 2492.0 | 200.00 | 2492.0 |
| 19 | Supplying and fixing of procelin fuse channel with e on existing wooden / panel using necessary nuts, bolts and washers , 63 Amps (P No 44 / I No. 5 7 3 KPWD Electrical SR 2019-20) | Eac | - | - | 8.00 | 238.12 | 1905.0 | 8.00 | 1905.0 |
| 20 | Providing and fixing in position 50mm nominal bore non-return valve honzontal type of approved make including cost of all matenals, labour and HOM of equipments with all leads complete as per specifications (Page No.95 Item No. 13.62 / PWD SR 2018-19) | Nos | - | - | 8.00 | 1411.05 | 11288.4 | 8.00 | 11288.4 |
| 21 | Supplying and fixing miniature circuit breakers on existing MCB Distribution boards using necessary fixing matenals and 'C' Type curve, indicator ON/OFF, Energy cross -3 with short circuit breaking capacity of 10K And Completed wiring confirming to IEC 60898 50-63 Amps TPN (P. No. 27 / I No 5.17.9) KPWD Electrical SR 2019-20 | Nos | - | - | 8.00 | 2514.45 | 20115.6 | 8.00 | 20115.6 |
| 22 | Cutting of road surface for pipeline trenches and disposing of the excavated stuff as directed including barricading danger lighting etc., in the Asphalt surface road including cost of matenals, labour, HOM complete as per specifications. (P. No 269/ I No 37.38 PWD SR 2018-19) | Cum | - | - | 205.20 | 499.26 | 102448.2 | 205.20 | 102448.2 |
| 23 | KSRB 2-2 Earthwork excavation by manual means for foundation of buildings, water supply and sanitary lines and electncal conduits etc, either in pits or in trenches 1.5m and above in width, in soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the excavated soil clear from edges of excavation with lead upto 50 m. including breaking of clods complete as per specifications. (P. No 6/ I No 2 3 PWD SR 2018-19) | Cum | - | - | 957.60 | 332.47 | 318373.3 | 957.60 | 318373.3 |
| 24 | Supplying PVC nng tight pipes conformin to IS 4980 :2000 With latest amendments and conveying to work site rolling and lowering into trenches laying true line level and prefect linking at joints testing and commissoning incuding loading and un loading at both destinations and cuts of pipes wherever neccessary including joints of PVC pipes and specificals (excluding cost of pipes)with jointing of approvel type with all labour with all lead and lift incuding encasing the pipe alround to adepth of not less then 15cms with soft gravel or selected earth availble from the excavation etc., completed and giving necessary hydralic test to the required pressure as per IS (Contractor will make his own arrangement for procuring water for testing)(P. No 133 I No 1 4 BWSSB SR 2018-19) 63mm outer dia, 6kg/sqcm & class 5 | Mtr | - | - | 2280.00 | 127.98 | 291794.4 | 2280.00 | 291794.4 |
| 25 | Refilling available earth around pipe lines, cables in layers not exceeding 20cms in depth, compacting each deposited layer by ramming after watering with lead upto 50m. and lift upto 1.5 m. includingcost of all labour complete as per specifications. P. No 7.1/ I No. (2.11) KPWD SR 2018-19 | Cum | - | - | 957.60 | 134.54 | 128835.5 | 957.60 | 128835.5 |
| 26 | KSRRB M400-17 Providing, laying, spreading and compacting cushed stone aggregales of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carnage of mixed matenals by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications(P.No-155,I No-20.18 of PWD BCSR 2018-19) | Cum | - | - | 314.64 | 2099.34 | 660536.3 | 314.64 | 660536.3 |
| 27 | Supplying fully automatic star-delta starter unit push button type with suitable wires, 3 contactors, one adjustable thermal timer mounted on a common base plate held in steel enclosure for use on 400/440 volts 3 phase and wired after fixing to the existing wooden board for motor.Above 12.5 HP upto 25 HP (P No. 24 / I No.5 2 2 KPWD Electncal SR 2019-20) | Nos | - | - | 8.00 | 839.20 | 6713.6 | 8.00 | 6713.6 |
| | bescom charges | | | | | | 126647.0 | | 126647.0 |
| | | | | | Sub Total | | 6766416 | | 6766416 |
| | | | | | GST 12% | | 811970 | | 811970 |
| | | | | | Total | | 7578386 | | 7578386 |

Certificates:

The above work is done satisfactorily and complete in all respect

There is no department Material issue for the above work

This works comes under BBMP Limit

AE-02

# BRUHAT BANGALORE MAHANAGARA PALIKE

Engineering Department

## COMPLETION REPORT

| | | |
|---|---|---|
| 1 | Completion Report of the work of : | Providing water supply and drilling of borewells in ward no -01 & 02 of yelahanka Sub division. |
| 2 | Sanctioned Estimate No. And Date | No/BBMP/CE(TA/4th Zone/PR/281/2019-20 Dt.30/01/2 EE/WE/AS/79/2019-20 Dt-30-01-2020 |
| 3 | Name of the Contractor | Sri K L N Reddy |
| 4 | Time Stipulated for Completion of work | 90 days |
| 5 | Date of Commencement | 23-3-2020 |
| 6 | Date of Completion: | 28-6-2020 |
| 7 | Measurment Recorded | 20-6-2020 |
| | M.B No | 3690 |
| | Page No | 368953 to 368965 |
| | Name of the Office/ Officials incharge of the work | |
| | 1) Asst. Exe.Engineer | RAJANI KANTH MALLI |
| | 2) Asst. Engineer | CHANDRAKANTHA RAJU - P.A. |

| Estiamte Amount / Tender | Amount Claimed as per Actuals | Excess | Savings | Remarks |
|---|---|---|---|---|
| | | | | |

ertified that the above work has been completed with in the stipulated time Snoted in entrustment.

ertified that above work has been executed satisfactorily.

ENGINEER
BRUHAT BANGALORE MAHANAGARA PALIKE

ASST. EXE.ENGINEER
SUB - DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Final bill

Recorded on:-

Job Code NO:- 001-20-000028

No. E Estimated Cost Rs. 75.00 Lakhs

# M. A. R. 57 (Rule 116)

Measurement Book

3683953

rial No. .....

Work order NO:- EE/YNK.D/EPnT-16/W.O/263/2019-20, Date 28/03/2020 p

me of work Providing water Supply and drilling of borewells in coard no-01 & 02 of Yelahanka Sub division. Sri. K. Lakshmi Narayana Reddy. NO:01, 15th Cross, Kamakamagara, RT nagara (Post) Bangalore-560032.

me of Contractor of nature of Agency.....

te of commencement of work.....

| ate | Full description, etc, of work | Dimensions | | | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|
| | | Number | Length | Breadth / Depth | | |
| | 2 | 3 | 4 | 5 / 6 | 7 | 8 |
| | (1) Geophysical investigation of site for sinking borewell for supplying drinking water to the habitation either through the hand pump, mes of pwss by vertical electrical sounding by adopting verners or Schlumberger's method, including reconnaissance survey of geological formation, Geophysical investigation of existing Ground water in the vicinity, its quality of 1.0 meter in Consolidated formation for proper seating of casing pipe, depth of drilling required to cover full depth of aquifer proposed to be tapped, probable yield and other information required including transportation of instrument and accessories to work site etc as per Specifications & direction of engineer in charge work. | | | | | |
| | Quantity vide, As per prepared in excell book | | | | | |
| | Count measurement and page No of:- (4) | | | :- 8.00 Nos @ Rs. 3952.63 | | 31621.04 |

AE-L

**M. A. R. 57 (Rule 116)** No. E 368965
Measurement Book

.....

ork ..... From ..... To .....

ontractor of nature of Agency.....

nmencement of work.....

| Full description, etc, of work | Number | Dimensions: Length | Breadth | Depth | Contents | Reference to last Measurement |
|---|---|---|---|---|---|---|
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| | | 12% of GST charges Rs: | | | | 8,11,969.89 |
| Certified AE-OL | | Grand Total bill Amount Rs: | | | | 75,78,385.65 |

CERTIFICATE:-

1) Certified That the above work done is Satisfactory completed.

2) Certified That The, There is no debrics have been cleared to Site.

20/06/2020

Certified AE-OL

20/06/2020